ADAPTIVE PHASE CONTROLLER, METHOD OF CONTROLLING A PHASE AND TRANSMITTER EMPLOYING THE SAME

ABSTRACT OF THE DISCLOSURE

The present invention is directed to an adaptive phase controller employing a threshold level and a method of controlling a phase. In one embodiment, the adaptive phase controller includes a comparator configured to receive a comparison signal representing a phase and to provide a vernier signal based on comparing first and second samples of the comparison signal when the comparison signal is below the threshold level. Additionally, the adaptive phase controller also includes an adder/decoder coupled to the comparator and configured to adjust a current number corresponding to the phase based on the vernier signal.